17

CLAIMS

1.   An electronic device (100), comprising:

a first wireless transceiver module (120) using a first communication protocol;

a second wireless transceiver module (140) using a second communication protocol, the second wireless transceiver module (140) comprising a controller for avoiding an interference with an external signal on a frequency of the second communication protocol; and

a mediator (160) coupled between the first wireless transceiver module (120) and the second wireless transceiver module (140), the mediator (160) being arranged to provide the controller with a blocking signal in response to an enabled communication involving the first wireless transceiver module (120).

2.   An electronic device (100) as claimed in claim 1, wherein the controller implements at least a part of a carrier sense multiple access – collision avoidance principle.

3.   An electronic device as claimed in claim 1, wherein the first wireless transceiver module (120) and the second wireless transceiver module (140) share at least a part of a physical layer (110).

4.   An electronic device (100) as claimed in claim 1, wherein the mediator is arranged to provide the blocking signal during a time interval matching the duration of the enabled communication.

5.   An electronic device (100) as claimed in claim 1 or 4, wherein the first wireless transceiver module (120) comprises a further controller for avoiding an interference with a further external signal on a frequency of the first communication protocol;

the mediator (160) being further arranged to provide the further controller with a further blocking signal in response to a further enabled communication involving the second wireless transceiver module (140).

5   6.   A method for controlling communications involving a communication system, the communication system comprising:

        a first wireless transceiver module using a first communication protocol;

        a second wireless transceiver module using a second communication protocol, the second wireless transceiver module comprising a controller for

10 avoiding an interference with an external signal on a frequency of the second communication protocol;

        the method comprising the steps of:

        detecting an enabled communication involving the first wireless transceiver module; and

15   providing the controller with a blocking signal in response to the enabled communication.

7.   A communication system (300), comprising:

        a wired network (360);

20   a first wireless transceiver module (320) coupled to the wired network (360) using a first communication protocol for communicating with a first external device (322);

        a second wireless transceiver module (340) coupled to the wired network (360) using a second communication protocol for communicating with

25 a second external device (342), the second wireless transceiver module (360) comprising a controller for avoiding an interference with an external signal on a frequency of the second communication protocol; and

        a mediator (380) coupled to the first wireless transceiver module (320) and the second wireless transceiver module (340) for providing the controller

30 with a blocking signal in response to an enabled communication involving the first wireless transceiver module (320).

8.   A communication system (300) as claimed in claim 7, wherein the mediator (380) is coupled to the controller via the wired network (360).

9.   A communication system (300) as claimed in claim 7 or 8, wherein the first wireless transceiver module (320) comprises a further controller for avoiding an interference with a further external signal on a frequency of the first communication protocol; and

the mediator (380) is arranged to provide the further controller with a further blocking signal responsive to a further enabled communication involving the second wireless transceiver module.

10.   A communication system as claimed in claim 7, wherein the first transceiver module (320) and the second transceiver module (340) share at least a part of a physical layer.